



India Meteorological Department  
(Ministry of Earth Sciences)

NATIONAL BULLETIN NO.8 (BOB/01/2024)

TIME OF ISSUE: 1500 HOURS IST

DATED: 25.05.2024

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**Sub: Deep Depression over Eastcentral Bay of Bengal (Cyclone Alert for West Bengal Coast)**

The deep depression over Eastcentral Bay of Bengal moved nearly northwards with a speed of 11 kmph during past 06 hours and lay centered at 1130 hrs IST of 25<sup>th</sup> May, 2024 over the same region near latitude 18.2°N and longitude 89.7°E, about 420 km south of Khepupara (Bangladesh), about 420 km south-southeast of Sagar Islands (West Bengal) and 460 km south-southeast of Canning (West Bengal).

It is very likely to continue to move nearly northwards and intensify into a **Cyclonic Storm** over eastcentral & adjoining north Bay of Bengal around 25<sup>th</sup> May evening. Continuing to move further northwards, it would intensify into a **Severe Cyclonic Storm** by 26<sup>th</sup> May morning and **cross Bangladesh and adjoining West Bengal coasts between Sagar Island and Khepupara by 26<sup>th</sup> May midnight as a Severe Cyclonic Storm with wind speed of 110-120 gusting to 135 kmph.**

Forecast track and intensity are given in the following table:

Date/Time (IST)	Position (Lat. °N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
25.05.24/1130	18.2/89.7	55-65 gusting to 75	Deep Depression
25.05.24/1730	18.8/89.6	60-70 gusting to 80	Cyclonic Storm
25.05.24/2330	19.4/89.6	75-85 gusting to 95	Cyclonic Storm
26.05.24/0530	20.0/89.5	95-105 gusting to 115	Severe Cyclonic Storm
26.05.24/1130	20.7/89.4	110-120 gusting to 135	Severe Cyclonic Storm
26.05.24/2330	21.9/89.4	110-120 gusting to 135	Severe Cyclonic Storm
27.05.24/1130	23.1/89.5	60-70 gusting to 80	Cyclonic Storm
27.05.24/2330	24.2/89.9	40-50 gusting to 60	Depression
28.05.24/1130	25.3/90.3	20-30 gusting to 40	Well Marked Low Pressure Area

## **Warnings (Graphics Attached):**

### **Heavy Rainfall Warning:**

- (a) **West Bengal:** Light to moderate rainfall at most places with **heavy to very heavy rainfall** at a few places is likely over coastal districts of West Bengal and eastern districts of Gangetic West Bengal adjacent to Bangladesh on 26<sup>th</sup> & 27<sup>th</sup> with isolated **extremely heavy rainfall** over these districts on 26<sup>th</sup> May.  
Light to moderate rainfall at most places with **heavy to very heavy rainfall** at isolated places likely over eastern districts of Sub-Himalayan West Bengal on 27<sup>th</sup> and 28<sup>th</sup> May.
- (b) **Odisha:** Light to moderate rainfall at most places with isolated **heavy rainfall** likely over North Coastal Odisha on 25<sup>th</sup> & 26<sup>th</sup> May.
- (c) **Northeastern States:** Light to moderate rainfall at most places with **heavy to very heavy rainfall** at isolated places is likely over Mizoram, Tripura and South Manipur on 26<sup>th</sup> and over Assam, Meghalaya, Arunachal Pradesh, Nagaland, Mizoram, Manipur & Tripura on 27<sup>th</sup> & 28<sup>th</sup> May. Isolated **extremely heavy rainfall** is also likely over Assam, Meghalaya on 27<sup>th</sup> & 28<sup>th</sup> May, Arunachal Pradesh on 28<sup>th</sup> May and Mizoram & Tripura on 27<sup>th</sup> May.
- (d) **Andaman Islands:** Light to moderate rainfall at most places with **heavy rainfall** at isolated places over north Andaman Islands on 25<sup>th</sup> May.

### **Wind Warning:**

#### **(a) Bay of Bengal:**

- ❖ **Squally wind speed reaching 50-60 kmph gusting to 70 kmph** is prevailing over central Bay of Bengal. It is likely to become **Gale wind speed reaching 60-70 kmph gusting to 80 kmph** from evening to today, the 25<sup>th</sup> May.
- ❖ It would increase further and extend to adjoining areas of North Bay of Bengal becoming **Gale wind speed reaching 70-80 kmph gusting to 90 kmph** from evening of today, the 25<sup>th</sup> May and **100-110 kmph gusting to 120 kmph** over North Bay of Bengal from morning and **110-120 kmph gusting to 135 kmph** from evening of 26<sup>th</sup> May.

**Gale wind speed reaching 70-80 kmph gusting to 90 kmph** is likely over adjoining central Bay of Bengal from 26<sup>th</sup> morning for subsequent 24 hours and decrease thereafter.

#### **(b) Along & off Bangladesh and West Bengal coasts:**

- ❖ **Squally wind speed reaching 40-50 kmph gusting to 60 kmph** is likely along & off Bangladesh and West Bengal & adjoining North Odisha coasts from 25<sup>th</sup> May evening. It is likely to increase becoming **gale wind speed reaching 60-70 kmph gusting to 80 kmph** from morning of 26<sup>th</sup> May and **100-120 kmph gusting to 135 kmph** along & off Bangladesh and adjoining West Bengal coasts from evening of 26<sup>th</sup> May for subsequent 12 hours.
- ❖ **Squally wind speed reaching 40-50 kmph gusting to 60 kmph** is likely to commence over Howrah, Hoogly, Kolkata and East Medinipur districts from evening of 26<sup>th</sup> May. It will increase gradually becoming **Gale wind speed reaching 70-80 kmph gusting to 90 kmph** over these districts during night of 26<sup>th</sup> May except East Medinipur where the wind speed may reach up to **60-70 kmph gusting to 80 kmph** during the same period.

#### **(c) Along & off Odisha coasts:**

**Squally wind speed reaching 40-50 kmph gusting to 60 kmph** is likely from 25<sup>th</sup> May evening to 27<sup>th</sup> May morning

#### **(d) South Bay of Bengal, Andaman Islands and Andaman Sea:**

**Squally wind speed reaching 40-50 kmph gusting to 60 kmph** is likely over Andaman Islands and North Andaman Sea during next 12 hours.

#### **(e) Northeastern States:**

**Squally wind speed reaching 50-60 kmph gusting to 70 kmph** is likely over Mizoram Tripura & south Manipur on 26<sup>th</sup> & 27<sup>th</sup> May and **40-50 kmph gusting to 60 kmph** is likely over South Assam and Meghalaya on 27<sup>th</sup> May.

**Storm surge warning:**

Storm surge of about 1 meter above astronomical tide is likely to inundate low lying areas of coastal West Bengal and 3-4 m above astronomical tide likely to inundate low lying areas of coastal Bangladesh around the time of landfall.

**Sea condition warning:****(a) Central and North Bay of Bengal:**

Rough to very rough sea condition is prevailing over central Bay of Bengal. It would become high over central Bay of Bengal on 25<sup>th</sup> May & 26<sup>th</sup> May and High to Very High over North Bay of Bengal from 25<sup>th</sup> evening till 27<sup>th</sup> May morning.

**(b) Along & off Bangladesh and West Bengal coasts**

Rough to very rough sea condition is likely along & off Bangladesh and West Bengal coasts from 25<sup>th</sup> May evening. It would become high to very high along & off Bangladesh and West Bengal coasts from 26<sup>th</sup> morning onwards till 27<sup>th</sup> May morning.

**(c) Along & off North Odisha coast:**

Rough to very rough sea condition is likely over along & off North Odisha coast from 25<sup>th</sup> May evening to 27<sup>th</sup> May morning.

**(d) Along & off Andaman Islands:**

Rough to very rough sea condition is likely over Andaman Islands and North Andaman Sea during next 12 hours.

**Damage Expected over South & North 24 Parganas, Howrah, Hoogly, Kolkata & adjoining East Medinipur districts of west Bengal:**

- Major damage to thatched houses/ huts. Possibilities of damage to vulnerable structure.
- Unattached metal sheets may fly.
- Breaking of tree branches, uprooting of trees. Major damage to banana and papaya trees. Dead limbs may blow off from trees.
- Damage to power and communication lines due to breaking of branches and uprooting of trees.
- Damage to Kutcha and minor damage to Pucca roads due to heavy rain.
- Damage to paddy crops, horticultural crops and orchards.
- Inundation of low-lying areas and localized flooding
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic due to water logging and squally winds

**Action Suggested for South & North 24 Parganas, Howrah, Hoogly, Kolkata & adjoining East Medinipur districts of West Bengal:**

- Total suspension of fishing operations.
- Surface transport and shipping operations need to be regulated
- Onshore & Offshore operation need to be regulated as per guidelines
- Coastal hutment dwellers to be in safer places.
- People in affected areas to remain indoors.
- Avoid going to areas that face the water logging problems often.
- Avoid staying in vulnerable structure.

**Fishermen Warning (graphics attached):**

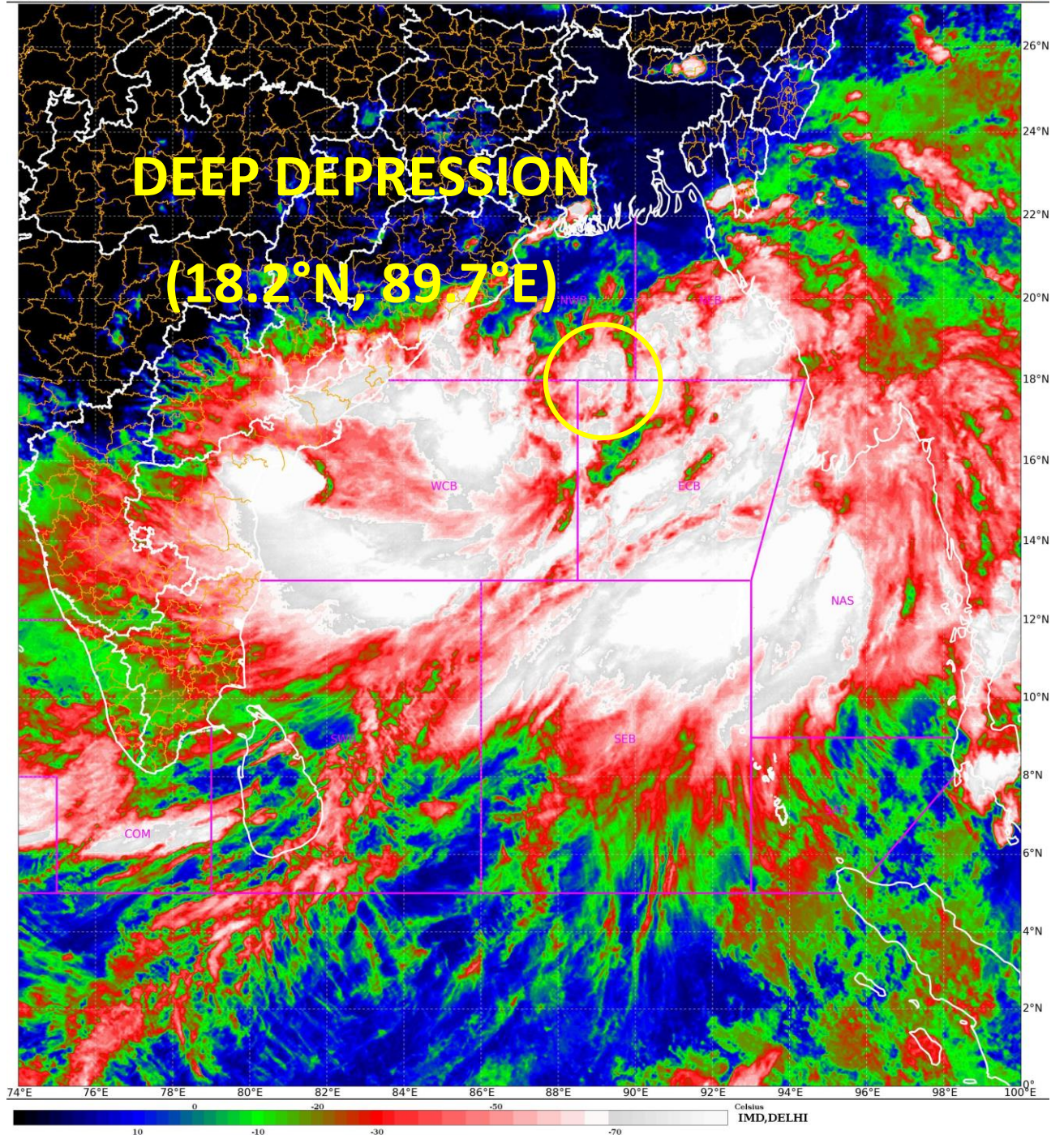
Fishermen are advised not to venture into south Bay of Bengal and Andaman Sea till 27<sup>th</sup> May, central Bay of Bengal till 26<sup>th</sup> May and North Bay of Bengal from 25<sup>th</sup> May till 27<sup>th</sup> May. Fishermen out at sea are advised to return to the coast.

**The system is under continuous surveillance and the next message will be issued at 1730 hours IST of today, the 25<sup>th</sup> May, 2024.**

(D.R. Pattanaik)

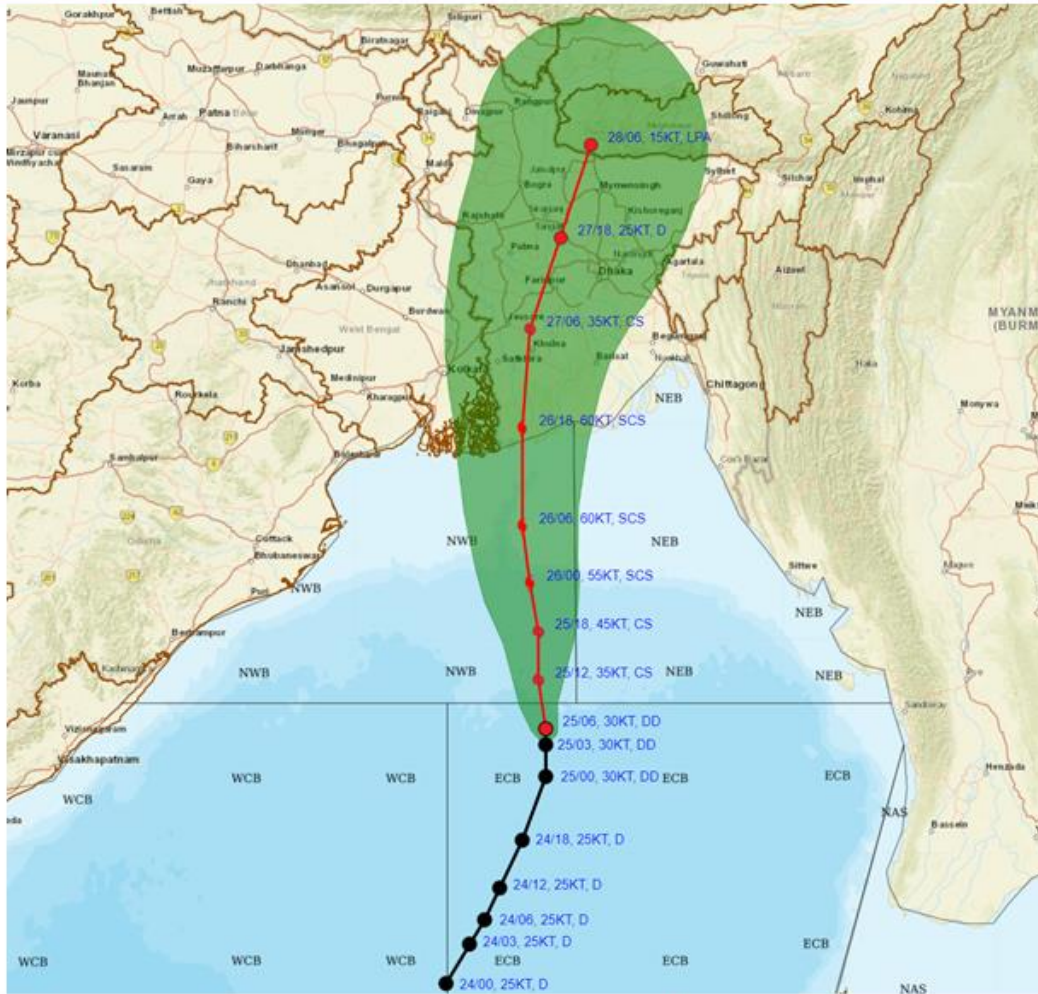
**Scientist F, Cyclone Warning Division, New Delhi**

*Copy to: ACWC Kolkata/ ACWC Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/MO  
Port Blair/RMC Guwahati*





**FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY IN ASSOCIATION WITH DEEP DEPRESSION OVER EASTCENTRAL BAY OF BENGAL BASED ON 0600 UTC (1130 IST) OF 25<sup>TH</sup> MAY 2024.**



DATE/TIME IN UTC  
IST=UTC + 0530

L: LOW PRESSURE AREA

WML: WELL MARKED LOW PRESSURE AREA

D: DEPRESSION (17-27 KT)

DD: DEEP DEPRESSION (28-33 KT)

CS: CYCLONIC STORM (34-47 KT)

SCS: SEVERE CYCLONIC STORM (48-63KT)

VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)

ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)

SuCS: SUPER CYCLONIC STORM (≥ 120 KT)

● LESS THAN 34 KT

○ 34-47 KT

○ ≥ 48 KT

— OBSERVED TRACK

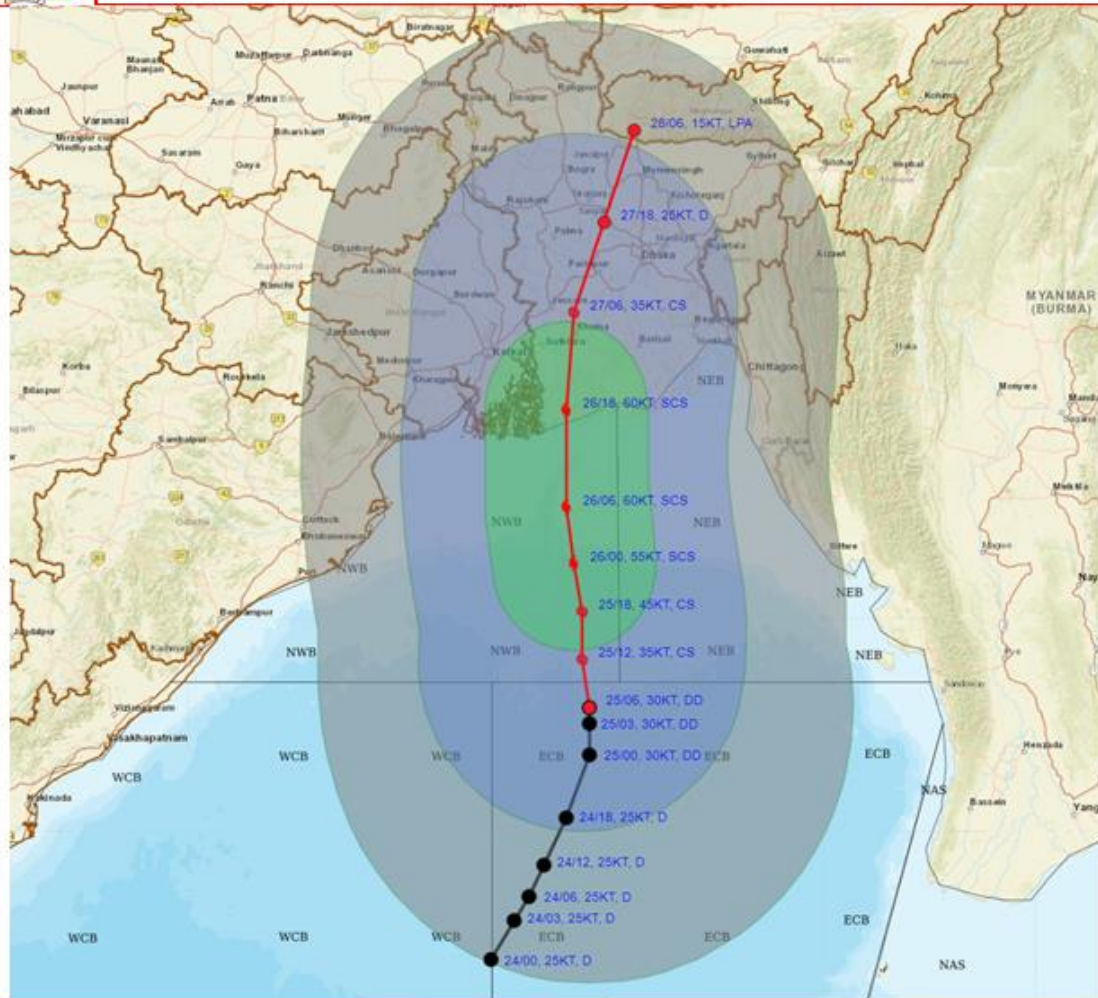
— FORECAST TRACK

▲ CONE OF UNCERTAINTY

Forecast	DISTANCE (KM) AND DIRECTION FROM STATIONS		
Date and Time (UTC)	Canning	Khepupara	Sagar Island
25.05.24/0600	460, SSE	420, S	420, SSE
26.05.24/0600	180, SSE	160, SSW	180, SE
27.05.24/0600	130, NE	150, NNW	220, NE



**FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION IN ASSOCIATION WITH DEEP DEPRESSION OVER EASTCENTRAL BAY OF BENGAL BASED ON 0600 UTC (1130 IST) OF 25<sup>TH</sup> MAY 2024.**



DATE/TIME IN UTC  
IST=UTC + 0530

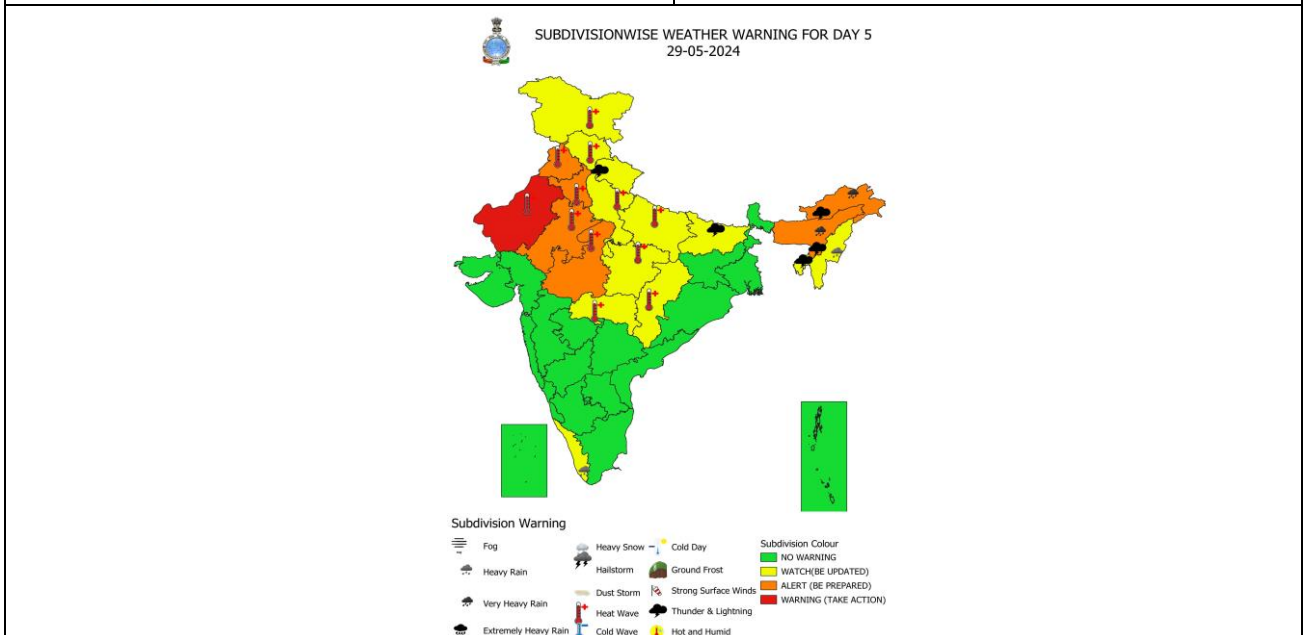
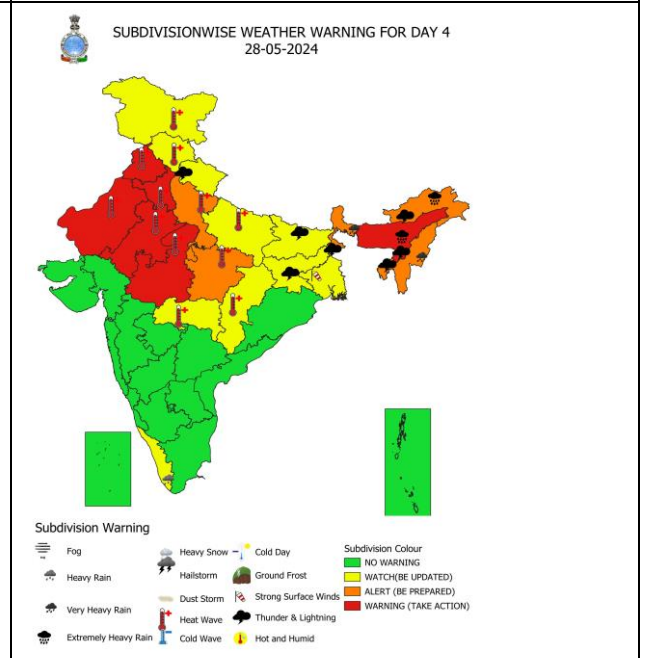
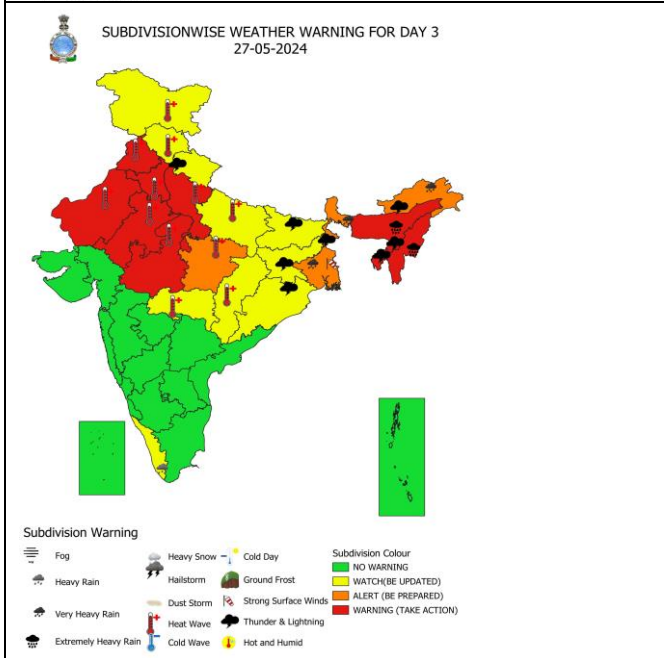
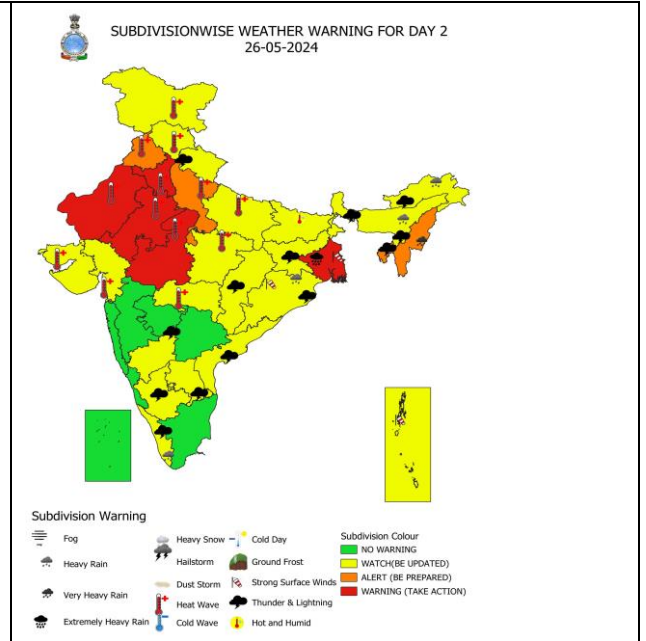
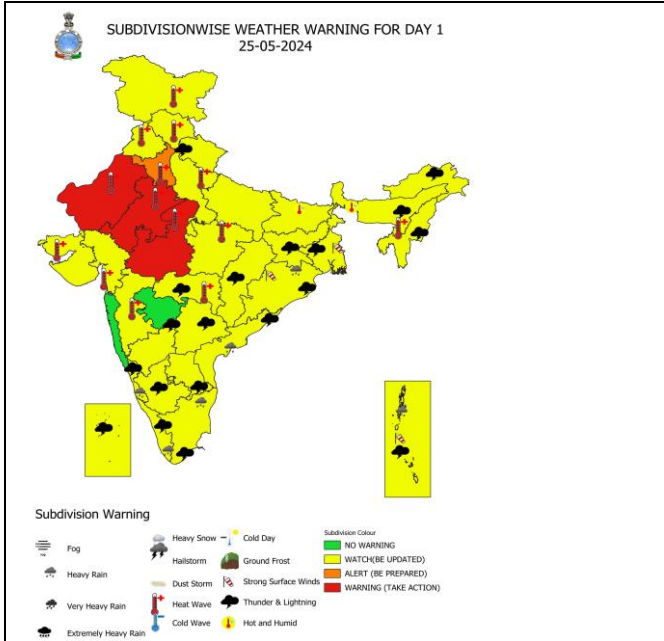
L: LOW PRESSURE AREA  
WML: WELL MARKED LOW PRESSURE AREA  
D: DEPRESSION (17-27 KT)  
DD: DEEP DEPRESSION (28-33 KT)  
CS: CYCLONIC STORM (34-47 KT)  
SCS: SEVERE CYCLONIC STORM (48-63KT)  
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)  
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)  
SuCS: SUPER CYCLONIC STORM (≥ 120 KT)

● LESS THAN 34 KT  
⊙ 34-47 KT  
⦿ ≥ 48 KT  
— OBSERVED TRACK  
— FORECAST TRACK  
— CONE OF UNCERTAINTY  
AREA OF MAXIMUM SUSTAINED WIND SPEED:  
■ 28-33 KT (52-61 KMPH)  
■ 34-49 KT (62-91 KMPH)  
■ 50-63 KT (92-117 KMPH)  
■ ≥ 64 KT (≥118 KMPH)

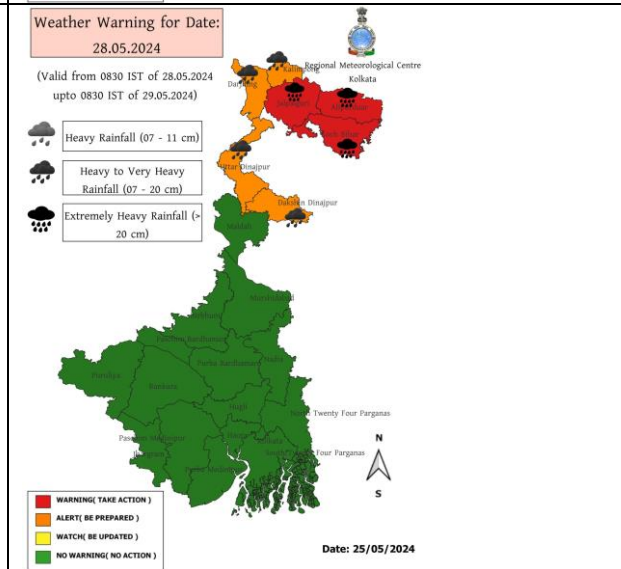
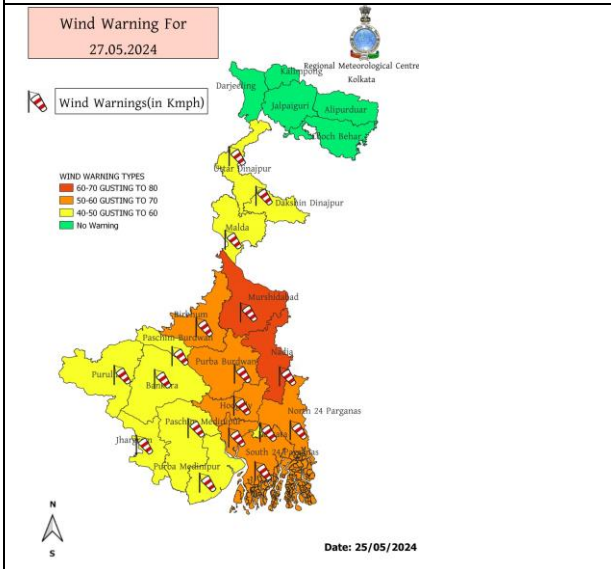
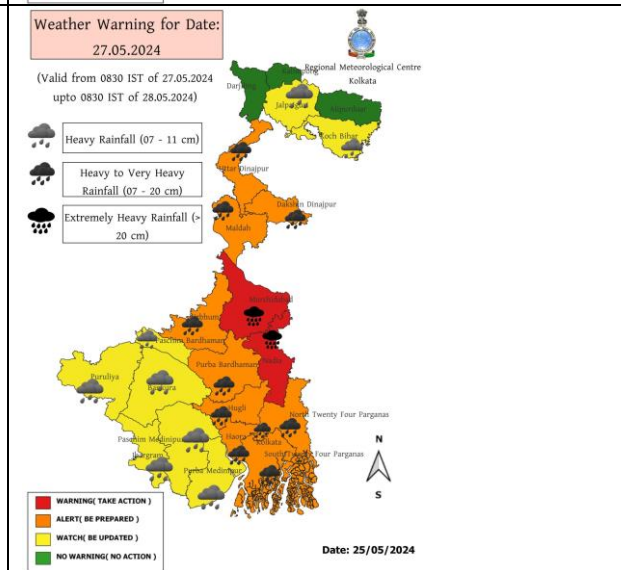
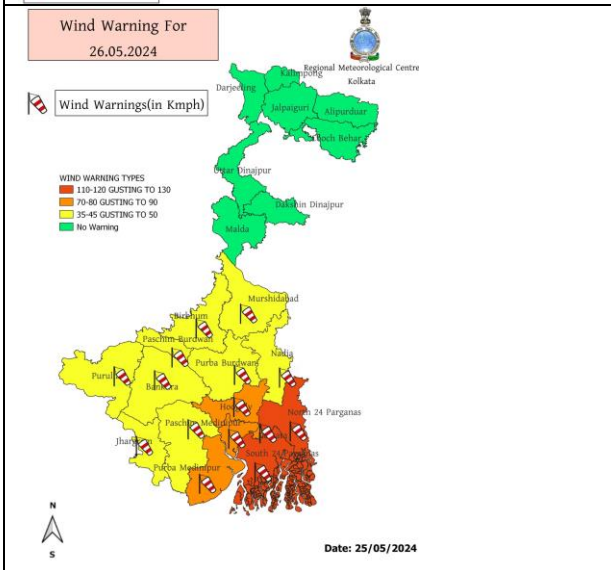
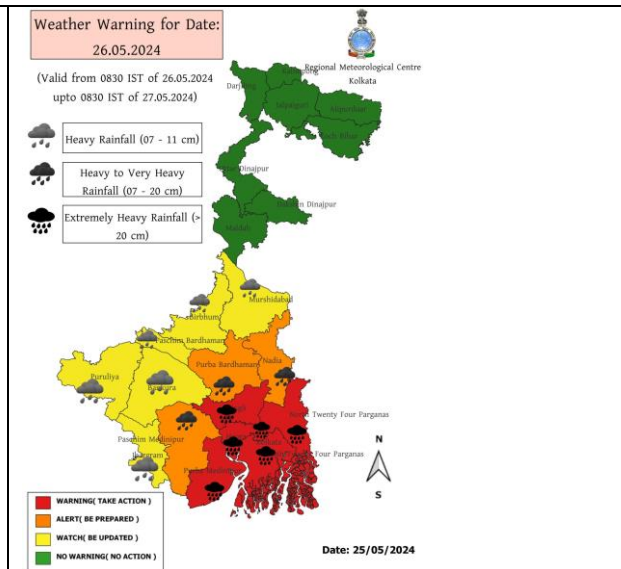
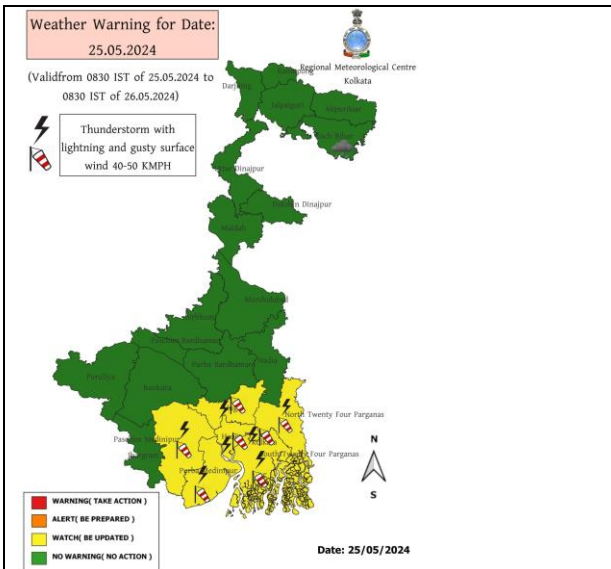
**IMPACT OVER THE SEA**

MSW (knot/kmph)	Impact	Action
28-33 (52-61)	Very rough seas	Total suspension of fishing operations
34-49 (62-91)	High to very high seas	Total suspension of fishing operations
50-63 (92-117)	Very high seas	Total suspension of fishing operations
≥ 64 (≥118)	Phenomenal	Total suspension of fishing operations

# All India Warning Graphics

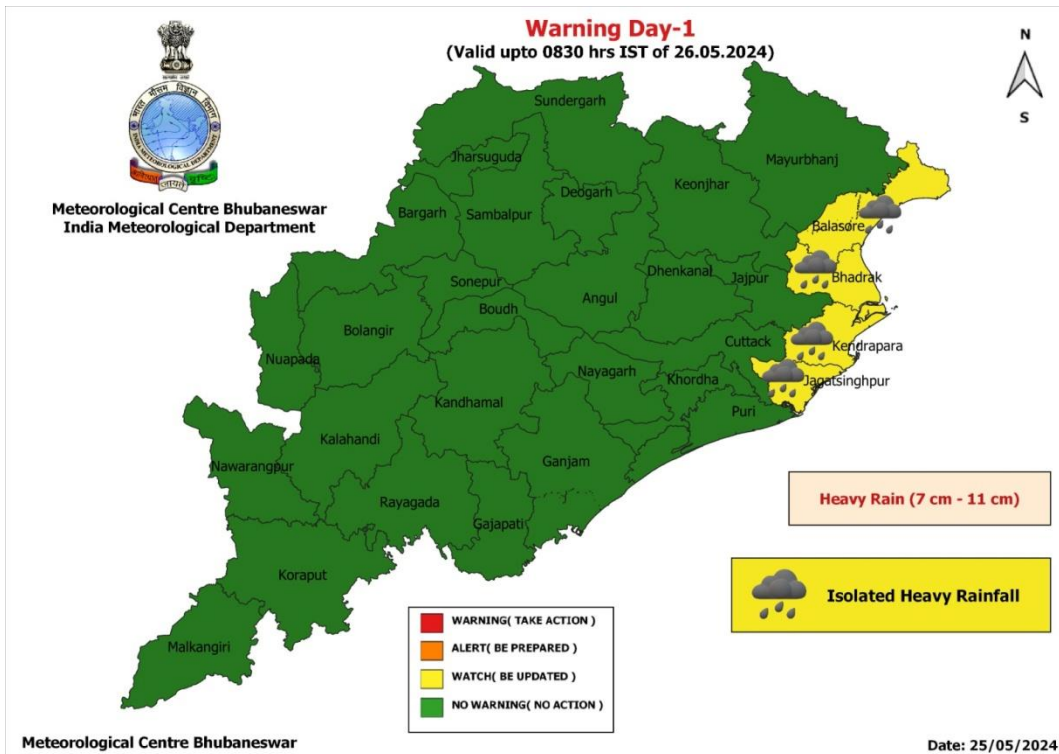
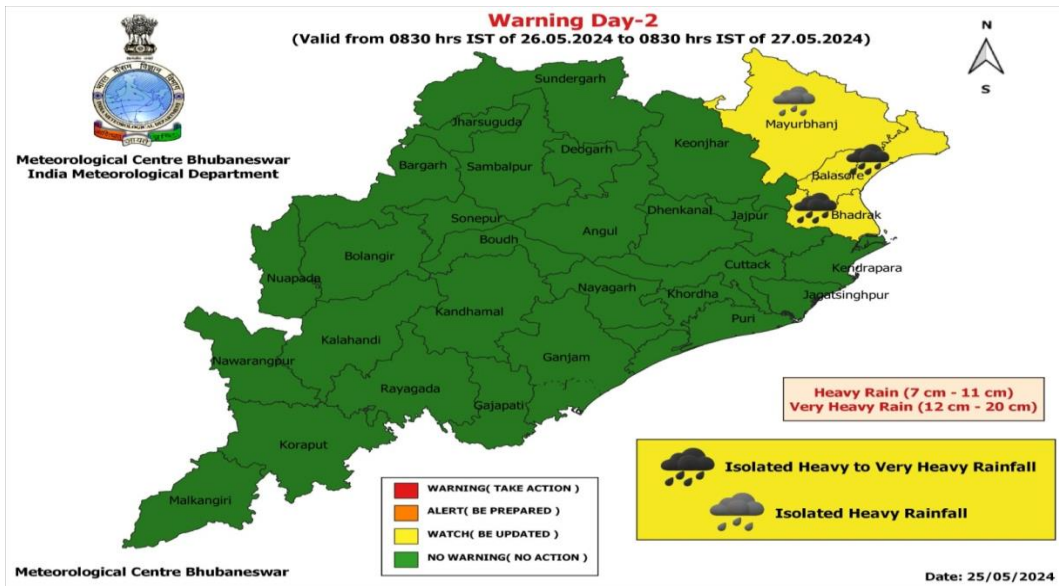


# Warning Graphics of West Bengal

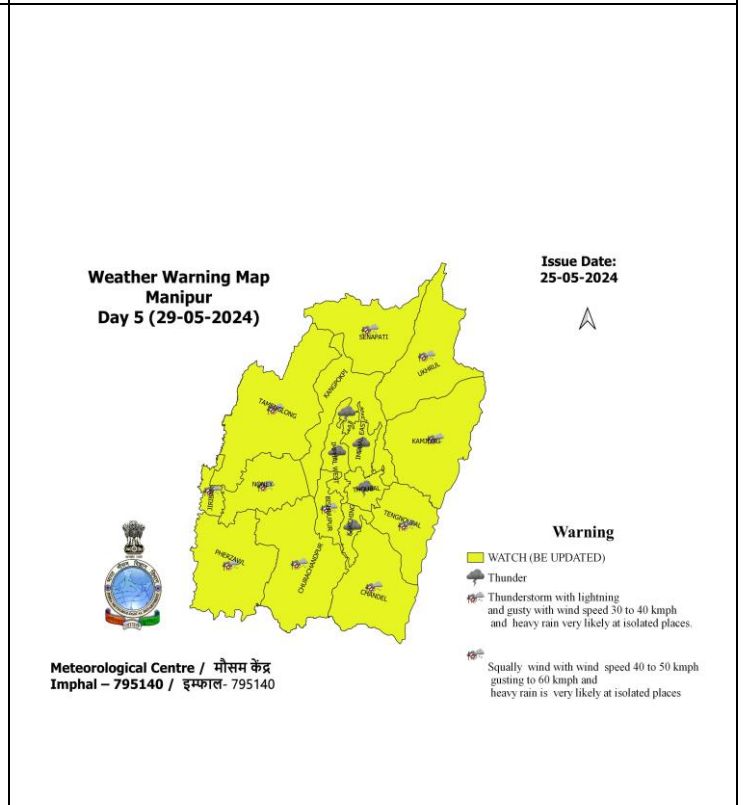
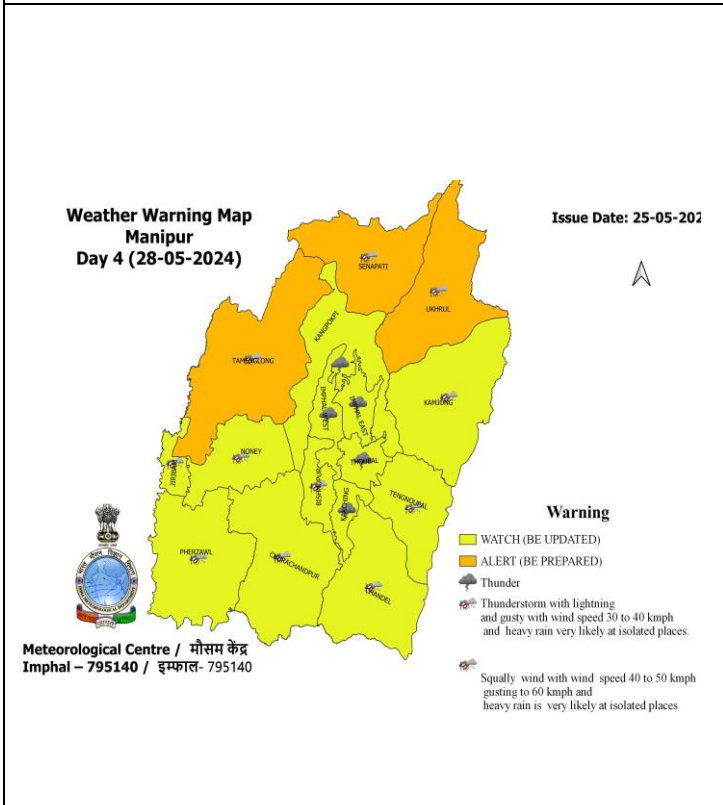
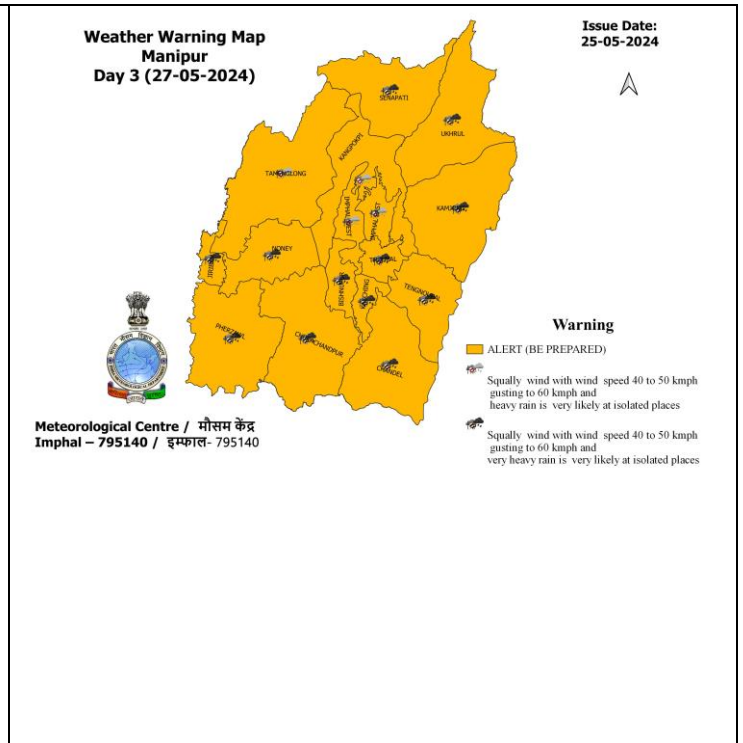
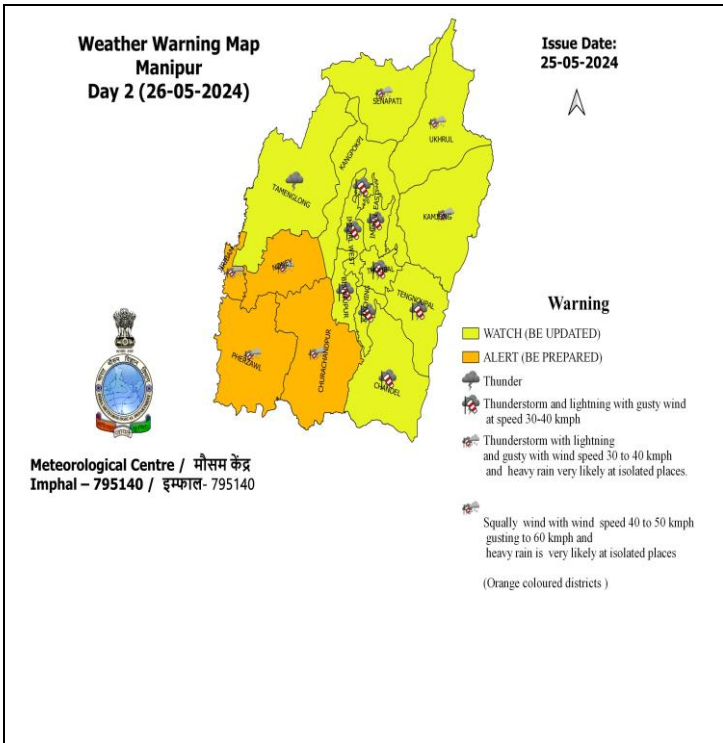




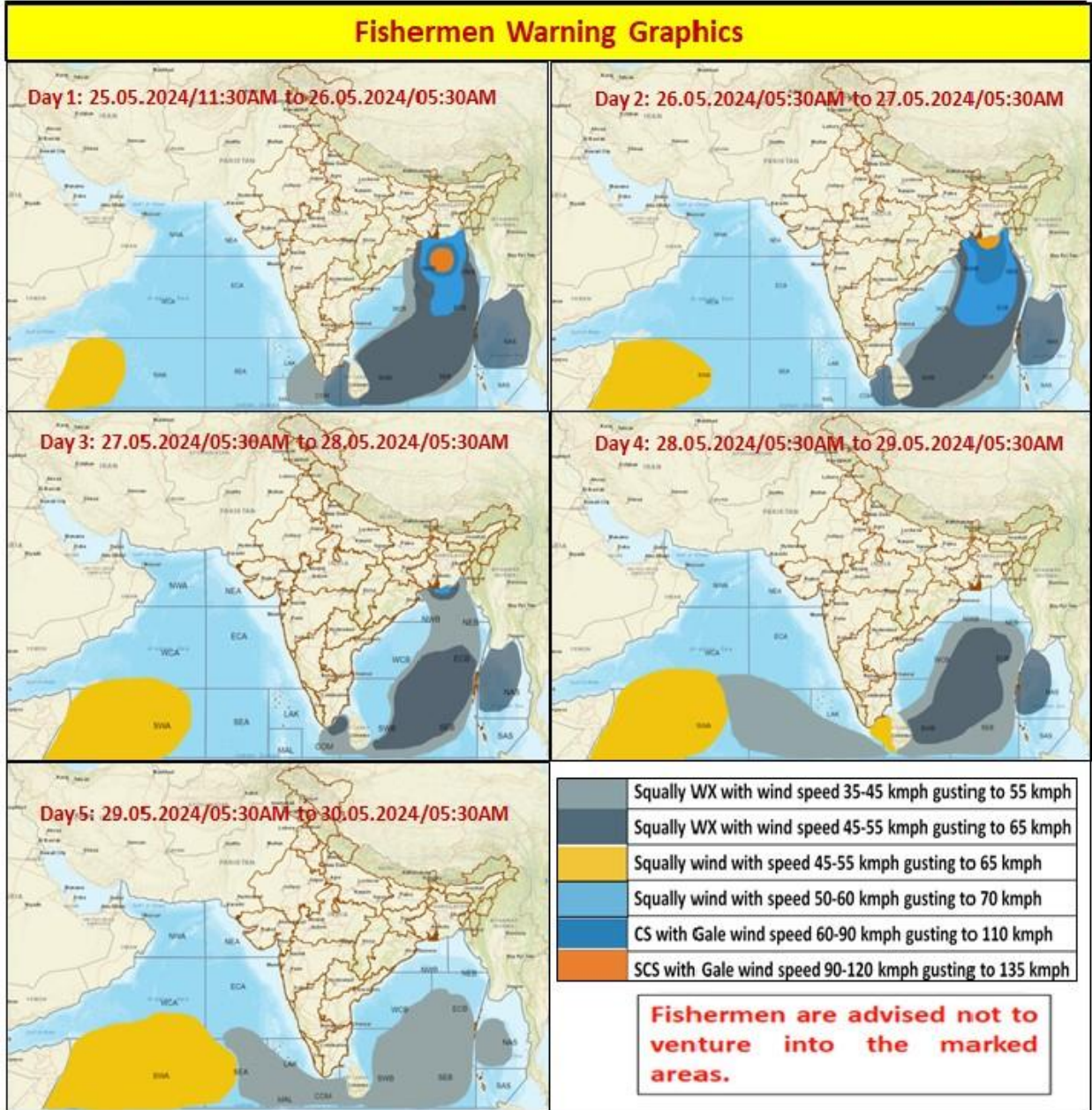
# Warning Graphics for Odisha



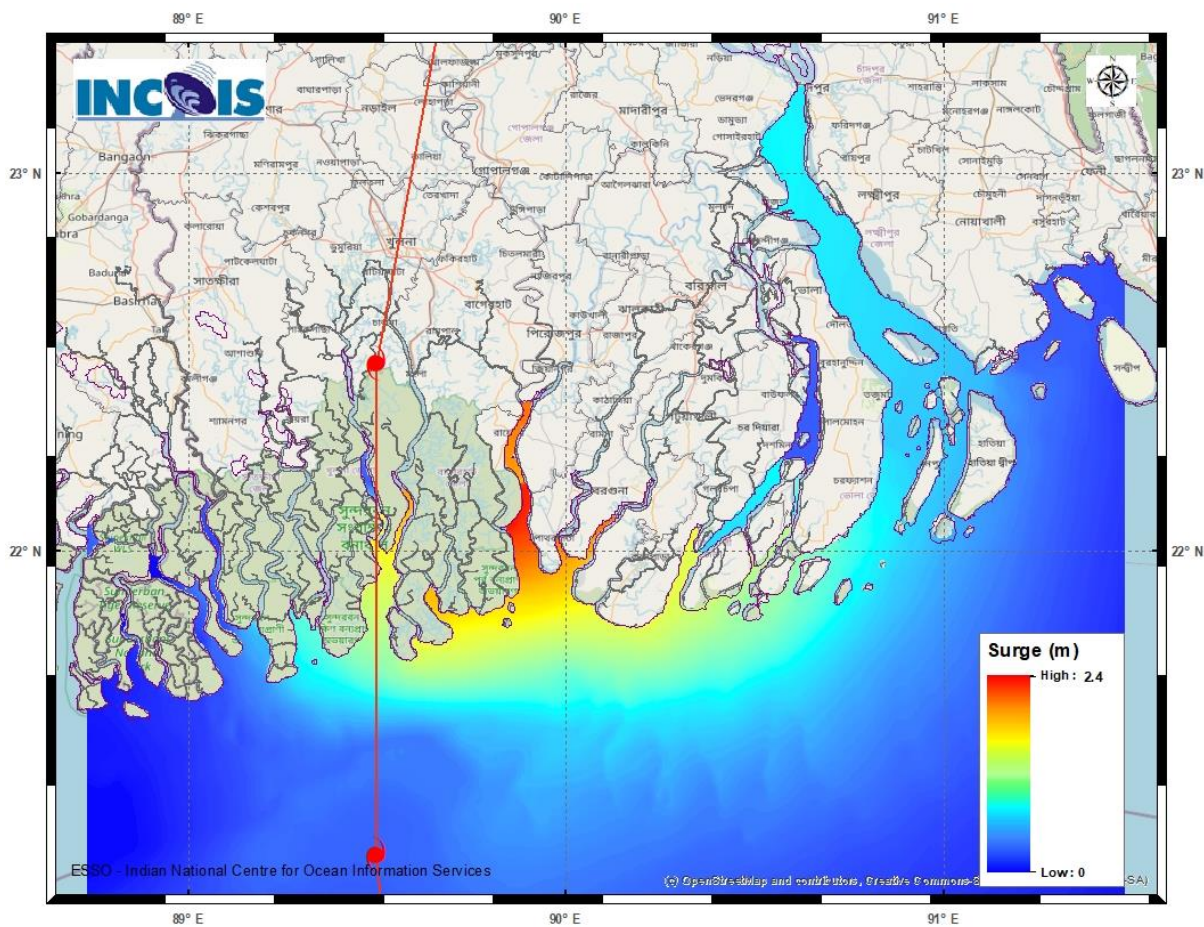
# Warning Graphics for Manipur



# Fishermen Warning Graphics



# Storm Surge Warning Graphics



# WIND AND FLOOD HAZARD MAPS FOR WEST BENGAL

